

Figure 1A
Neutrokine-α

1	AAATTCAGGATAACTCTCCTGAGGGGTGAGCCAAGCCCTGCCATGTAGTGCACGCAGGAC	60
61	ATCAACAAACACAGATAACAGGAAATGATCCATTCCCTGTGGTCACTTATTCTAAAGGCC	120
121	CCAACCTTCAAAGTTCAAGTAGTGATATGGATGACTCCACAGAAAGGAGCAGTCACGCC	180
1	M D D S T E R E Q S R L	12
181	TTACTTCTTGCCCTTAAGAAAAGAGAAGAAATGAACTGAAGGAGTGTGTTTCCATCCTCC	240
13	T S C L K K R E E M K L K E C V S I L P	32
	CD-I	
241	CACGGAAGGAAAGCCCTCTGTCCGATCTCCAAAGACGGAAGCTGTGGCTGCAACCT	300
33	R K E S P S V R S S K D G K L L A A T L	52
	CD-I	
301	TGCTGCTGGCACTGCTGTCTTGCTGCCTCACGGTGGTGTCTTTCTACCAGGTGGCCGCC	360
53	L L A L L S C C L T V V S F Y Q V A A L	72
361	TGCAAGGGGACCTGGCCAGCCTCCGGGCAGAGCTGCAGGGCCACCACGCGGAGAAGCTGC	420
73	Q G D L A S L R A E L Q G H H A E K L P	92
	CD-II	
421	CAGCAGGAGCAGGAGCCCCAAGGCCGGCCTGGAGGAAGCTCCAGCTGTCCACGCGGGAC	480
93	A G A G A P K A G L E E A P A V T A G L	112
	CD-III	
	#	
481	TGAAATCTTTGAACCACCAGCTCCAGGAGAAGGCAACTCCAGTCAGAACAGCAGAAATA	540
113	K I F E P P A P G E G N S S Q N S R N K	132
541	AGCGTGCCGTTCAAGGTCCAGAAGAAACAGTCAAGACTGCTTGCAACTGATTGCAG	600
133	R A V Q G P E E T V T Q D C L Q L I A D	152
	CD-IV	
601	ACAGTGAAACACCAACTATACAAAAGGATCTTACACATTTGTTCCATGGCTTCTCAGCT	660
153	S E T P T I Q K G S Y T F V P W L L S F	172
	CD-V	
661	TTAAAAGGGGAAGTGCCCTAGAAGAAAAAGAGAATAAAATATTGGTCAAAGAACTGGTT	720
173	K R G S A L E E K E N K I L V K E T G Y	192
	CD-V	
	CD-VI	
721	ACTTTTTTATATATGGTCAGGTTTATATACTGATAAGACCTACGCCATGGGACATCTAA	780
193	F F I Y G O V L Y T D K T Y A M G H L I	212
	CD-VI	
	CD-VII	
781	TTCAGAGGAAGAAGGTCCATGTCTTTGGGGATGAATTGAGTCTGGTGACTTTGTTTCGAT	840
213	O R K K V H V F G D E L S L V T L F R C	232
	CD-VIII	
	CD-VIII	
	#	
841	GTATTCAAAATATGCCTGAAACACTACCCAATAATTCCTGCTATTTCAGCTGGCATTGCAA	900
233	I O N M P E T L P N N S C Y S A G I A K	252
	CD-VIII	
	CD-IX	

Figure 1B
Neutrokin- α

```
901 AACTGGAAGAAGGAGATGAAC TCCAAC TTGCAATACCAAGAGAAAATGCACAAATATCAC 960
253  L E E G D E L O L A I P R E N A Q I S L 272
      CD-X

961 TGGATGGAGATGTCACATTTTTTGGTGCATTGAAACTGCTGTGACCTACTTACACCATGT 1020
273  D G D V T F F G A L K L L 285
      CD-XI

1021 CTGTAGCTATTTTCCTCCCTTTCTCTGTACCTCTAAGAAGAAAGAATCTAACTGAAAATA 1080

1081 CCAAAAAAAAAAAAAAAAAA 1100
```


FIGURE 2B

	190	200	210	
114	A N G V E L R D N - Q L V V P S E G L Y L I Y S Q V L F K G			TNFalpha
89	Q D G F S L S N N - S L L V P T S G I Y F V Y S Q V V F S G			TNFbeta
114	T S G T Q F S D A E G L A L P Q D G L Y Y L Y C L V G Y R G			LTbeta
172	- S G V K Y K K G - G L V I N E T G L Y F V Y S K V Y F R G			FasLigand
174	R G S A L E E K E N K I L V K E T G Y F F I Y G Q V L Y T D			Neutrokin alpha
155	R G S A L E E K E N K I L V K E T G Y F F I Y G Q V L Y T D			Neutrokin alphaSV
	220	230	240	
143	Q G C P - - - - - S T H V L L T H T I S R I A V S Y Q T K			TNFalpha
118	K A Y S P - - K A T S S P L Y L A H E V Q L F S S Q Y P F H			TNFbeta
144	R A P P G G G D P Q G R S V T L R S S L Y R A G G A Y G P G			LTbeta
200	Q S C N - - - - - N L P L S H K V Y M R N S K Y P Q D			FasLigand
204	K T Y A M G - - - - - H L I Q R K K V H V F G D E L S - -			Neutrokin alpha
185	K T Y A M G - - - - - H L I Q R K K V H V F G D E L S - -			Neutrokin alphaSV
	250	260	270	
167	V N - - L L S A I K S P C Q R E T P E - - G A E A K P W Y E			TNFalpha
146	V P - - L L S S Q K M V Y P - - - - - G L Q E P W L H			TNFbeta
174	T P E L L L E G A E T V T P V L D P A R R Q G Y G P L W Y T			LTbeta
222	L V - - M M E G K M M S Y C - - - - - T T G Q M W A R			FasLigand
226	L V T L F R C I Q N M P E T L P N - - - - - N			Neutrokin alpha
207	L V T L F R C I Q N M P E T L P N - - - - - N			Neutrokin alphaSV
	280	290	300	
193	P I Y L G G V F O L E K G D R L S A E I N R P D Y L D F A E			TNFalpha
166	S M Y H G A A F O L T Q G D Q L S T H T D G I P H L V L S P			TNFbeta
204	S V G F G G L V Q L R R G E R V Y V N I S H P D M V D F A R			LTbeta
242	S S Y L G A V F N L T S A D H L Y V N V S E L S L V N F E E			FasLigand
244	S C Y S A G I A K L E E G D E L Q L A I P R E N A Q I S L D			Neutrokin alpha
225	S C Y S A G I A K L E E G D E L Q L A I P R E N A Q I S L D			Neutrokin alphaSV
	310			
223	S G Q V Y F G I I A L			TNFalpha
196	S - T V F F G A F A L			TNFbeta
234	- G K T F F G A V M V G			LTbeta
272	S - Q T F F G L Y K L			FasLigand
274	G D V T F F G A L K L L			Neutrokin alpha
255	G D V T F F G A L K L L			Neutrokin alphaSV

Figure 3
Neutrokine- α

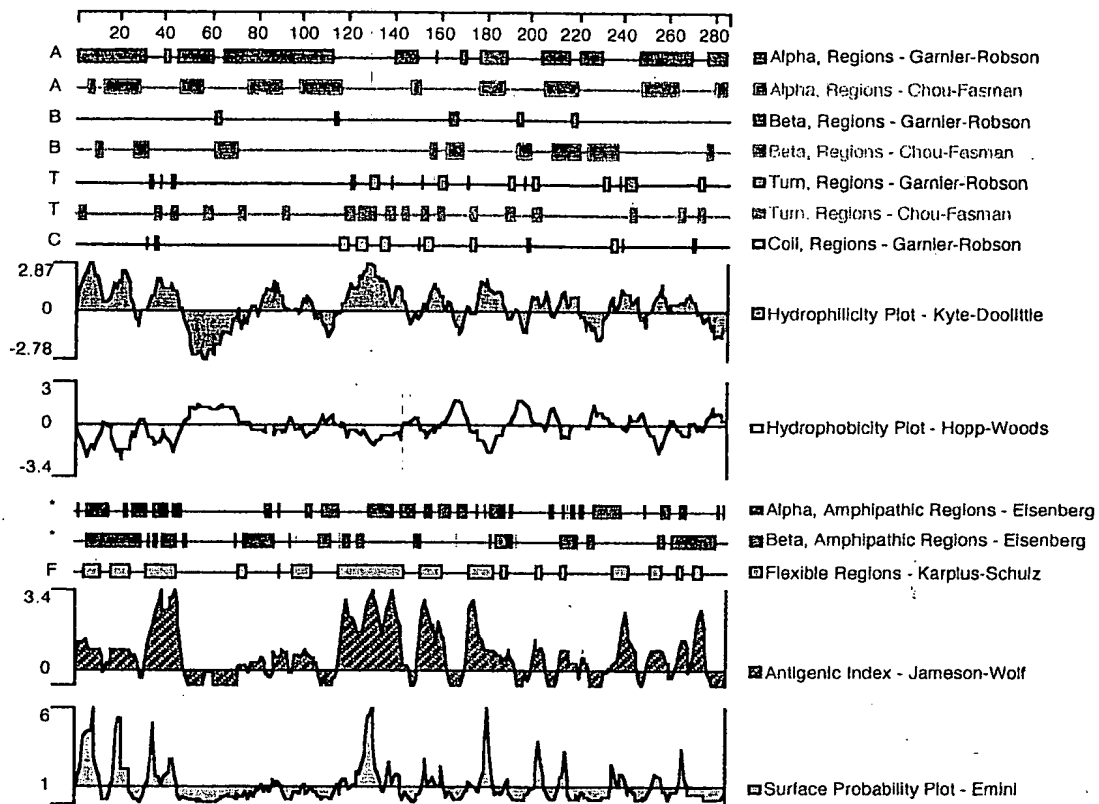


FIGURE 4 A

	1				50
HSOAD55R	.....A	GGNTAACTCT	CCTGAGGGGT	GAGCCAAGCC	CTGCCATGTA
HNEDU15X	...AAATTCA	GGATAACTCT	CCTGAGGGGT	GAGCCAAGCC	CTGCCATGTA
HSLAH84R	.AATTCGGCA	NAGNAACTG	GTTACTTTTT	TATATATGGT	CAGGTTTTAT
HLTBM08R	AATTCGGCAC	GAGCAAGGCC	GGCCTGGAGG	AAGCTCCAGC	TGTCACCGCG
	51				100
HSOAD55R	GTGCACGCAG	GACATCANCA	A..ACACANN	NNNCAGGAAA	TAATCCATTC
HNEDU15X	GTGCACGCAG	GACATCAACA	A..ACACAGA	TAACAGGAAA	TGATCCATTC
HSLAH84R	ATACTGATAA	GACCTACGCC	ATGGGACATC	TAGTTCAGAG	GAAGAAGGTC
HLTBM08R	GGACTGAAAA	TCTTTGAACC	ACCAGCTCCA	GGAGAAGGCA	ACTCCAGTCA
	101				150
HSOAD55R	CCTGTGGTCA	CTTATTCTAA	AGGCCCAAC	CTTCAAAGTT	CAAGTAGTGA
HNEDU15X	CCTGTGGTCA	CTTATTCTAA	AGGCCCAAC	CTTCAAAGTT	CAAGTAGTGA
HSLAH84R	CATGTCTTTG	GGGATGAATT	GAGTCTGGTG	ACTTTGTTTC	GATGTATTCA
HLTBM08R	GAACAGCAGA	AATAAGCGTG	CCGTTTCAGG	TCCAGAAGAA	ACAGTCACTC
	151				200
HSOAD55R	TATGGATGAC	TCCACAGAAA	GGGAGCAGTC	ACGCCTTACT	TCTTGCCTTA
HNEDU15X	TATGGATGAC	TCCACAGAAA	GGGAGCAGTC	ACGCCTTACT	TCTTGCCTTA
HSLAH84R	AAATATGCCT	GAAACACTAC	CCAATAATT	CTGCTATTCA	GCTGGCATTG
HLTBM08R	AAGACTGCTT	GCAACTGNNT	GCAGACAGTG	AAACACCAAC	TATACAAAAA
	201				250
HSOAD55R	AGAAAAGAGA	AGAAATGAAA	CTGNAAGGAG	TGTGTTTCCA	TCCTCCCACG
HNEDU15X	AGAAAAGAGA	AGAAATGAAA	CT.GAAGGAG	TGTGTTTCCA	TCCTCCCACG
HSLAH84R	CAAACTGGN	AGGAAGGA..	...GATGAAC	TCCAACCTGC	AATACCAGGG
HLTBM08R	GGCTCCCTTC	TGNTGCCACA	TTTGGGCCAA	GGAATGGAGA	GATTTCTTCG
	251				300
HSOAD55R	GAAGGAAAGC	CCCTCTNTCC	GATCCTCCAA	AGACGGAAAG	CTGCTGGCTG
HNEDU15X	GAAGGAAAGC	CCCTCTGTCC	GATCCTCCAA	AGACGGAAAG	CTGCTGGCTG
HSLAH84R	GAAAATGCAC	AATTATCACT	GGGATGGAGA	TGTTACATT	TTTTGGGTGC
HLTBM08R	TCTGGAAACA	TTTTGCCAAA	CTCTTCAGAT	ACTCTTNCT	CTCTGGGAAT
	301				350
HSOAD55R	CAACCTTGNT	GNTGGCATTG	TGTTCTTGCT	GNCTCAAGGT	GGTGTNTT.
HNEDU15X	CAACCTTGCT	GCTGGCACTG	CTGTCTTGCT	GCCTCACGGT	GGTGTCTTTC
HSLAH84R	CATTGAACT	GCTGTGACCT	NCTTACANCA	NGTGCTGTTN	GCTATTTTNC
HLTBM08R	CAAAGGAAAA	TCTCTACTTA	GATTNACACA	TTTGTTCCCA	TGGGTNTCTT
	351				400
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	TACCAGGTGG	CCGCCCTGCA	AGGGGACCTG	GCCAGCCTCC	GGGCAGAGCT
HSLAH84R	CTNCCTNTTC	TNTGGTAACC	TCTTAGGAAG	GAAGGATTCT	TAAGTGGGAA
HLTBM08R	AAGTTTTTAA	AGGGGAGTGC	CCTTAGGAGG	AAAAGGGGAT	AAATATTGGC

FIGURE 4B

	401				450
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	GCAGGGCCAC	CACGCGGAGA	AGCTGCCAGC	AGGAGCAGGA	GCCCCCAAGG
HSLAH84R	ATAACCCAAA	AAAANNTTAA	ANGGGTANGN	GNNANANGNG	GGGNNGTNN
HLTBM08R	CAAGGNACTG	GTTANTTTNT	AAATATGGTC	AGGTTTNTAT	ANCTGGTAGG
	451				500
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	CCGGCCTGGA	GGAAGCTCCA	GCTGTCACCG	CGGGACTGAA	AATCTTTGAA
HSLAH84R	CNNGNNGNNT	TTTNGGNNTA	TNTTNTNNTN	GGGNNNNGTA	AAAATGGGGC
HLTBM08R	CCTCGCCATG	GGCATTNATT	CANGGNGAGG	NCNNTCTTTT	GGGNTGA...
	501				550
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	CCACCAGCTC	CAGGAGAAGG	CAACTCCAGT	CAGAACAGCA	GAAATAAGCG
HSLAH84R	CNANGGGGGN	TTTTT.....	.....	.....	.....
HLTBM08R	.....	.....	.....	.....	.....
	551				600
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	TGCCGTTCAG	GGTCCAGAAG	AAACAGTCAC	TCAAGACTGC	TTGCAACTGA
HSLAH84R	.....	.....	.....	.....	.....
HLTBM08R	.....	.....	.....	.....	.....
	601				650
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	TTGCAGACAG	TGAAACACCA	ACTATACAAA	AAGGATCTTA	CACATTTGTT
HSLAH84R	.....	.....	.....	.....	.....
HLTBM08R	.....	.....	.....	.....	.....
	651				700
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	CCATGGGCTC	TCAGCTTTAA	AAGGGGAAGT	GCCCTAGAAG	AAAAAGAGAA
HSLAH84R	.....	.....	.....	.....	.....
HLTBM08R	.....	.....	.....	.....	.....
	701				750
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	TAAAATATTG	GTCAAAGAAA	CTGGTTACTT	TTTTATATAT	GGTCAGGTTT
HSLAH84R	.....	.....	.....	.....	.....
HLTBM08R	.....	.....	.....	.....	.....
	751				800
HSOAD55R	.....	.....	.....	.....	.....
HNEDU15X	TATATACTGA	TAAGACCTAC	GCCATGGGAC	ATCTAATTCA	GAGGAAGAAG
HSLAH84R	.....	.....	.....	.....	.....
HLTBM08R	.....	.....	.....	.....	.....

FIGURE 4C

	801		850
HSOAD55R	.....	.....	.....
HNEDU15X	GTCCATGTCT	TTGGGGATGA	ATTGAGTCTG GTGACTTTGT TTCGATGTAT
HSLAH84R	.....	.....	.....
HLTBM08R	.....	.....	.....
	851		900
HSOAD55R	.....	.....	.....
HNEDU15X	TCAAAATATG	CCTGAAACAC	TACCCAATAA TTCCTGCTAT TCAGCTGGCA
HSLAH84R	.....	.....	.....
HLTBM08R	.....	.....	.....
	901		950
HSOAD55R	.....	.....	.....
HNEDU15X	TTGCAAACT	GGAAGAAGGA	GATGAACTCC AACTTGCAAT ACCAAGAGAA
HSLAH84R	.....	.....	.....
HLTBM08R	.....	.....	.....
	951		1000
HSOAD55R	.....	.....	.....
HNEDU15X	AATGCACAAA	TATCACTGGA	TGGAGATGTC ACATTTTTTG GTGCATTGAA
HSLAH84R	.....	.....	.....
HLTBM08R	.....	.....	.....)
	1001		1050
HSOAD55R	.....	.....	.....
HNEDU15X	ACTGCTGTGA	CCTACTTACA	CCATGTCTGT AGCTATTTTC CTCCCTTTCT
HSLAH84R	.....	.....	.....
HLTBM08R	.....	.....	.....
	1051		1100
HSOAD55R	.....	.....	.....
HNEDU15X	CTGTACCTCT	AAGAAGAAAG	AATCTAACTG AAAATACCAA AAAAAAAAAA
HSLAH84R	.....	.....	.....
HLTBM08R	.....	.....	.....
	1101		
HSOAD55R	.....	
HNEDU15X	AAAAAA		
HSLAH84R	.....	
HLTBM08R	.....	

Figure 5A
Neutrokine- α SV

1	ATGGATGACTCCACAGAAAGGGAGCAGTCACGCCTTACTTCTTGCCTTAAGAAAAGAGAA	60
1	M D D S T E R E Q S R L T S C L K K R E	20
61	GAAATGAACTGAAGGAGTGTGTTTCCATCCTCCACGGAAGGAAAGCCCTCTGTCCGA	120
21	E M K L K E C V S I <u>L P R K E S P S V R</u>	40
	CD-I	
121	TCCTCCAAAGACGGAAGCTGCTGGCTGCAACCTTGCTGCTGGCACTGCTGTCTTGCTGC	180
41	<u>S S K D G K L L A A T L L L A L L S C C</u>	60
	CD-I	
181	CTCACGGTGGTGTCTTTTCTACCAGGTGGCCGCCCTGCAAGGGGACCTGGCCAGCCTCCGG	240
61	<u>L T V V S F Y Q V A A L Q G D L A S L R</u>	80
	CD-II	
241	GCAGAGCTGCAGGGCCACCACGCGGAGAAGCTGCCAGCAGGAGCAGGAGCCCCCAAGGCC	300
81	<u>A E L Q G H H A E K L P A G A G A P K A</u>	100
	CD-II	
	CD-III	
301	GGCCTGGAGGAAGCTCCAGCTGTACCGCGGGACTGAAAATCTTTGAACCACCAGCTCCA	360
101	<u>G L E E A P A V T A G L K I F E P P A P</u>	120
	CD-III	
	#	
361	GGAGAAGGCAACTCCAGTCAGAACAGCAGAAATAAGCGTGCCGTTTCAGGGTCCAGAAGAA	420
121	G E G N S S Q N S R N K R A V Q G P E E	140
421	ACAGGATCTTACACATTTGTTCCATGGCTTCTCAGCTTTAAAAGGGGAAGTGCCCTAGAA	480
141	<u>T G S Y T F V P W L L S F K R G S A L E</u>	160
	CD-IV	
481	GAAAAAGAGAATAAAATATTGGTCAAAGAACTGGTTACTTTTTATATATGGTCAGGTT	540
161	<u>E K E N K I L V K E T G Y F F I Y G Q V</u>	180
	CD-IV	
	CD-V	
541	TTATATACTGATAAGACCTACGCCATGGGACATCTAATTCAGAGGAAGAAGTCCATGTC	600
181	<u>L Y T D K T Y A M G H L I O R K K V H V</u>	200
	CD-VI	
	CD-VII	
601	TTTGGGGATGAATTGAGTCTGGTGACTTTGTTCGATGTATTCAAAATATGCCTGAAACA	660
201	<u>F G D E L S L V T L F R C I O N M P E T</u>	220
	CD-VIII	
	#	
661	CTACCCAATAATTCCTGCTATTTCAGCTGGCATTGCAAAACTGGAAGAAGGAGATGAACTC	720
221	<u>L P N N S C Y S A G I A K L E E G D E L</u>	240
	CD-IX	
	CD-X	
721	CAACTTGCAATACCAAGAGAAAATGCACAAATATCACTGGATGGAGATGTACATTTTTT	780
241	<u>Q L A I P R E N A Q I S L D G D V T F F</u>	260
	CD-X	
	CD-XI	
781	GGTGCATTGAACTGCTGTGACCTACTTACACCATGTCTGTAGCTATTTTCCCTCCCTTC	840
261	<u>G A L K L L</u>	266
	CD-XI	

Figure 5B
Neutrokinine- α SV

841 TCTGTACCTCTAAGAAGAAAGAATCTAACTGAAAATACCAAAAAAAAAAAAAAAAAAAAA 900

901 AAA 903

841 TCTGTACCTCTAAGAAGAAAGAATCTAACTGAAAATACCAAAAAAAAAAAAAAAAAAAAA 900

Figure 6
Neutrokinine- α SV

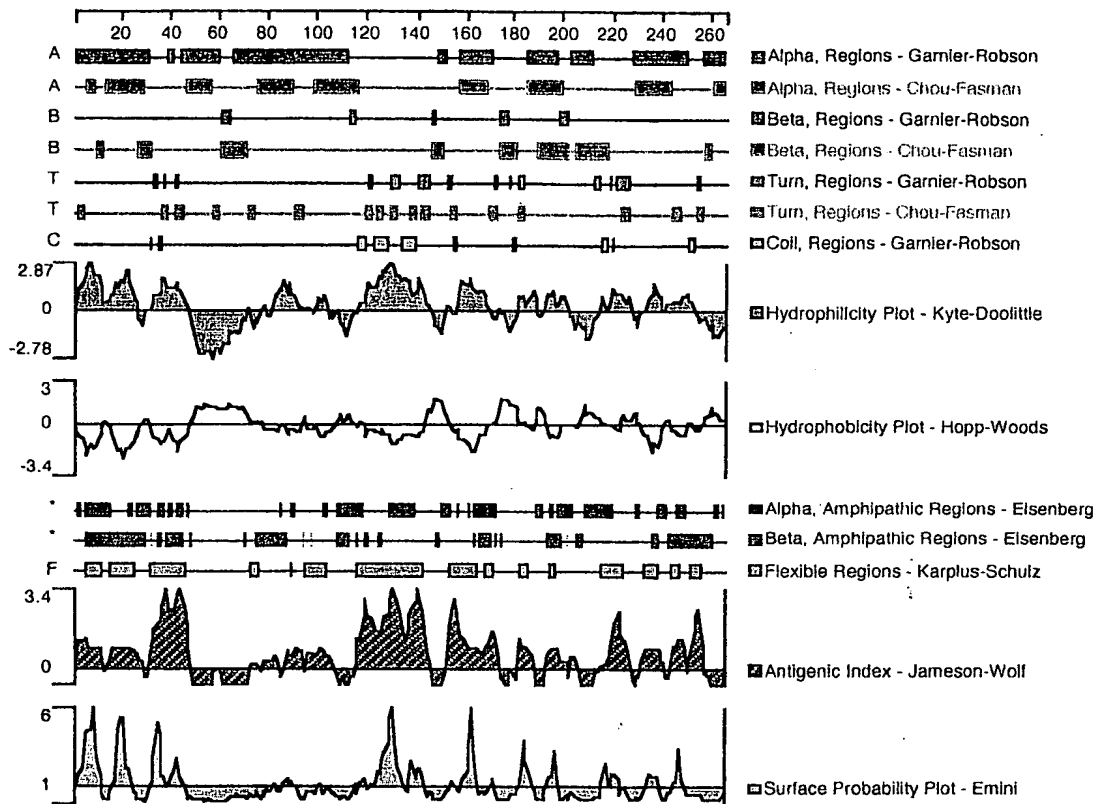


Figure 7

a.

leutokine-

alpha M DDSTEREQSRLTSCCLKKREEMKLKECVSILPRKESPSVRS 41

Transmembrane Region

SKD G K L L A A T L L L A L L S C C L T V V S F Y Q V A A L Q G D L A S L R A E 82

L Q G H H A E K L P A G A G A P K A G L E E A P A V T A G L K I F E P P A P G E G 123

N S S Q N S R N K R A V Q G P E E T V T Q D C L O L L A S E P T I Q K G S Y 164
 April H S V L H V P I N A S K - D D S D V 134
 TNF K P V A H V V N Q A E G Q - - - - - 102
 LT α K P A A H D E G D P S K Q N S - - - - - 77

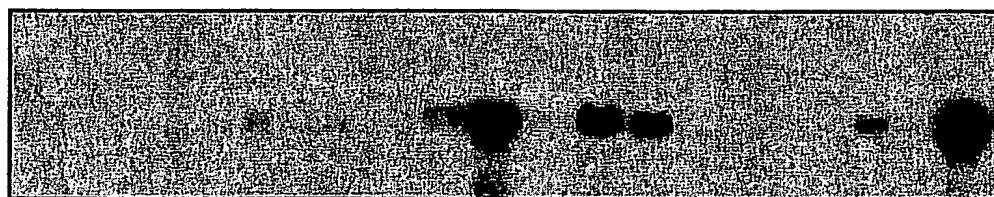
F M P W L S - - - - F K R G S A E E K E N K I H M K E T G Y F F I Y G O V L 200
 E M M Q P A - - - - F R R G R G L Q A Q G Y G V R I Q D A G V L L L Y S O V L 170
 - L Q W L N R R A N A L L A N G V E L R D - - N Q L V V P S E G L N L L Y S O V L 139
 - L L W R A N T D R A F F Q D Q F S E S N - - N S L L V P T S G I V F V Y S O V V 114

Y T D K L V - - - - A M G S L I Q R K K V H V G D E L S L V T T H R C L O N M P 237
 Q D V H F - - - - M G Q V V S R E - - - - G G R Q E T D T R C L R S M P 201
 K G Q G C P - - - - S T V L E T H T I S R I A V S M Q T K V N L L S A I K S E 176
 S G A A V S P K A T S S P E Y T A H E V Q L H S S Q V P F H V P L L S S Q V V 155

E - - T L E - - - - - N N S C Y S A G I A K L E G D E L Q L A T P R E N A 268
 S H P D R A - - - - - V N S C Y S A G V H H Q G D I S V I T P R A R A 234
 C Q R E T D E G A E A K P W Y E P I M L G G V F O L H K G D R T A E E N R P D Y 217
 Y P - - - - - G L Q E P W L H G M H G A A F O L T O G D Q L E T H T D G I P H 190

Q I S D G D V L F F C A L K L L 285
 K L N S H G L L G F V K L 250
 D F A E S G Q V Y F G I A L 233
 V L S - E S T V F L G A F A L 205

b.



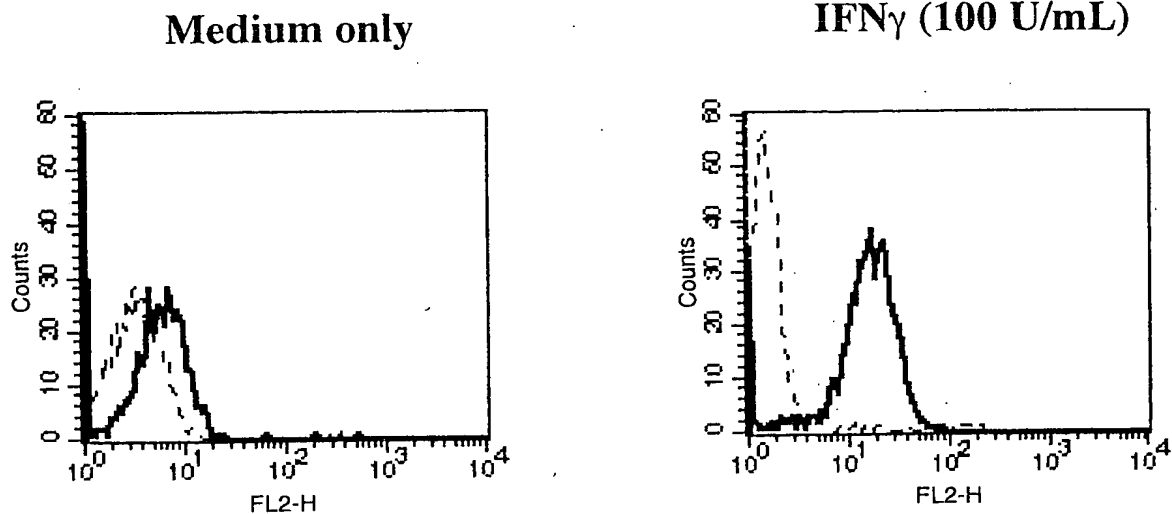
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- 2.4 kb

HL-60
 HeLa
 K-562
 MOLT-4
 Raji
 SW480
 Spleen
 Lymph Node
 Thymus
 PBL
 Bone Marrow
 Fetal liver
 Heart
 Brain
 Placenta
 Lung
 Liver
 S. Muscle
 Kidney
 Pancreas

Figure 8

a.



b.

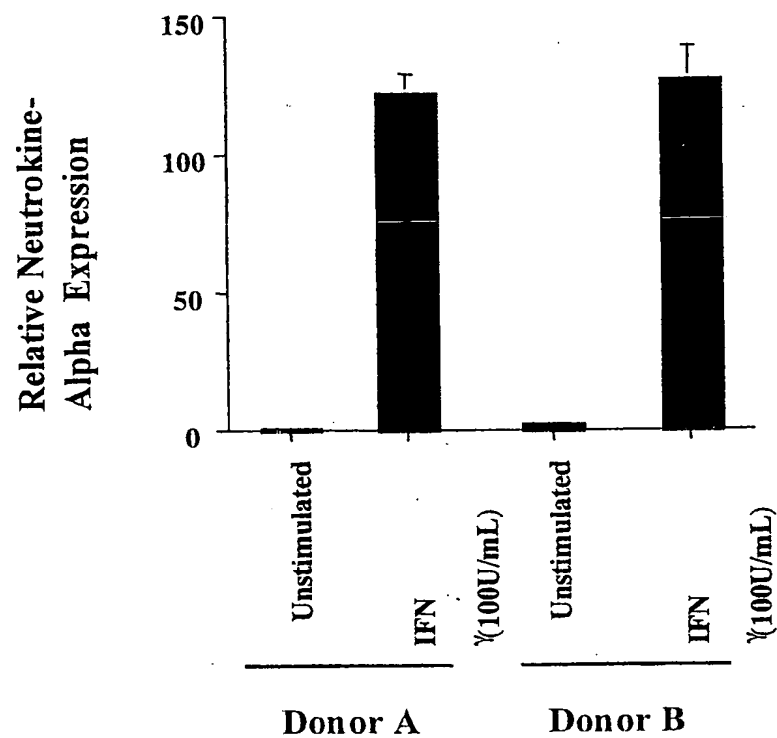
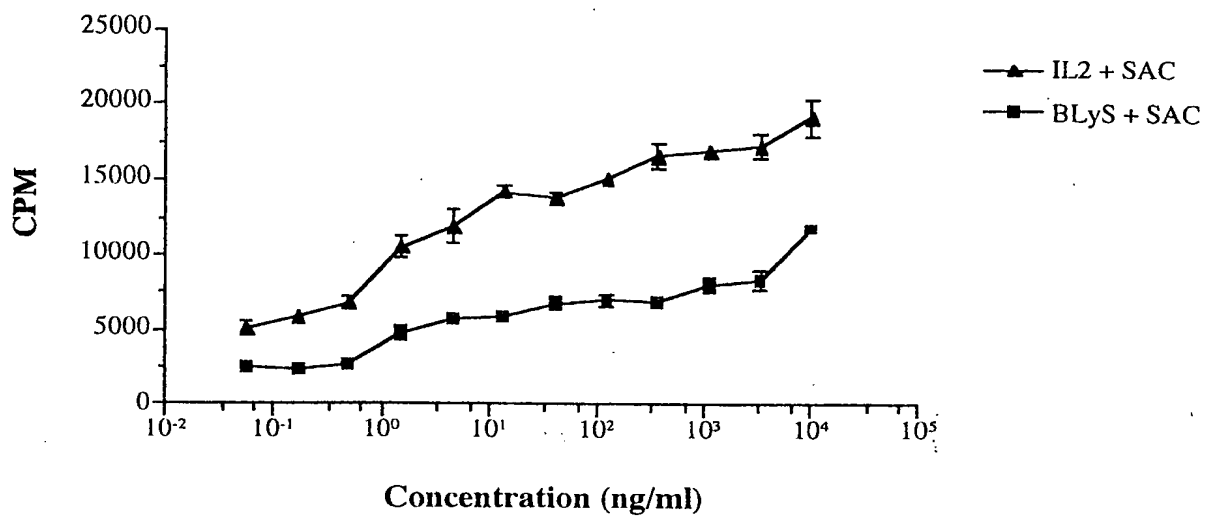


Figure 9

a.



b.

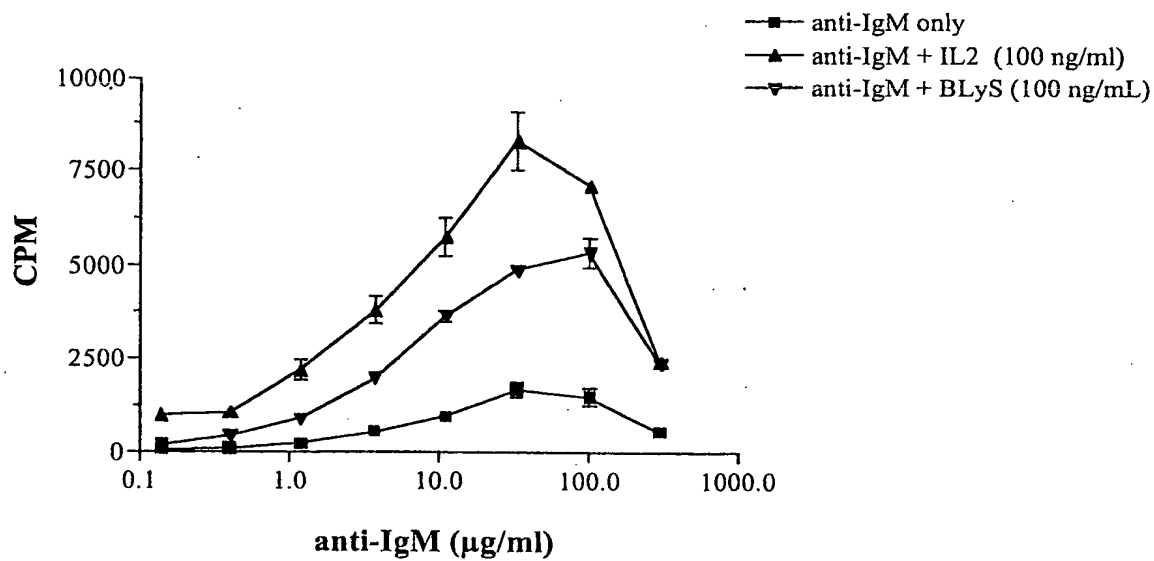
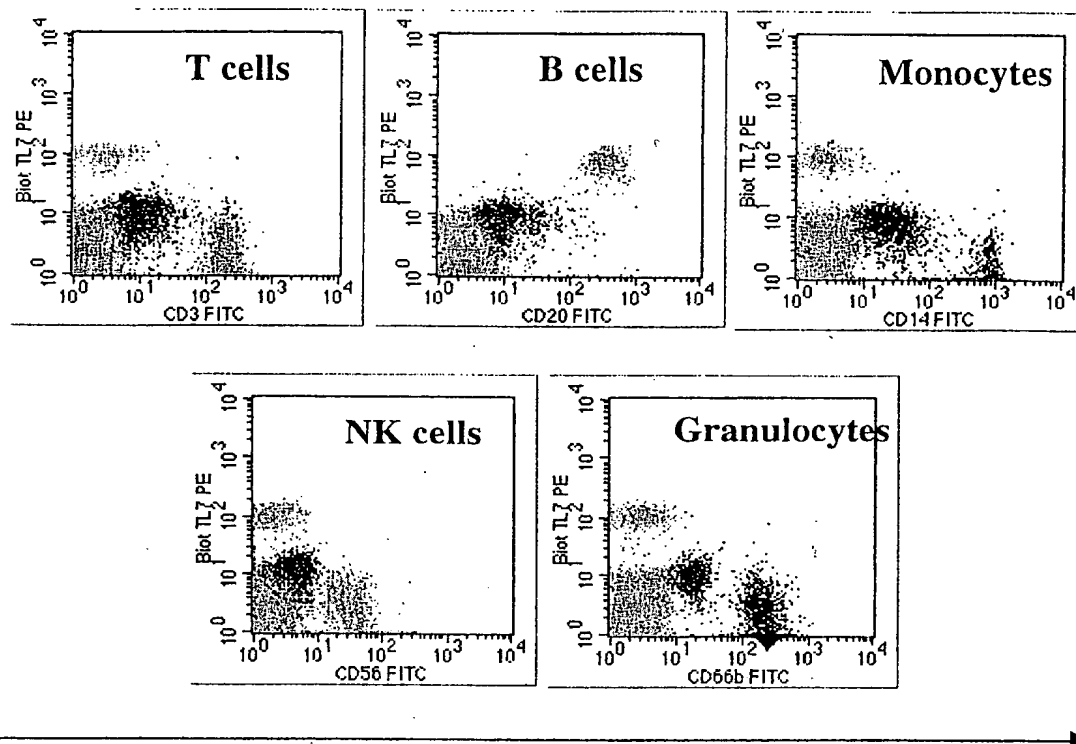


Figure 10

a.

**Biotinylated Neutrophil
alpha binding**



Hematopoietic lineage markers

b.

U-937

IM-9

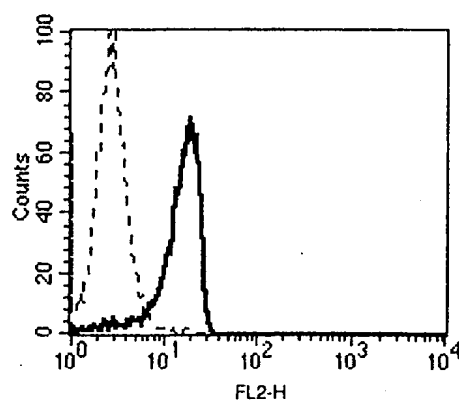
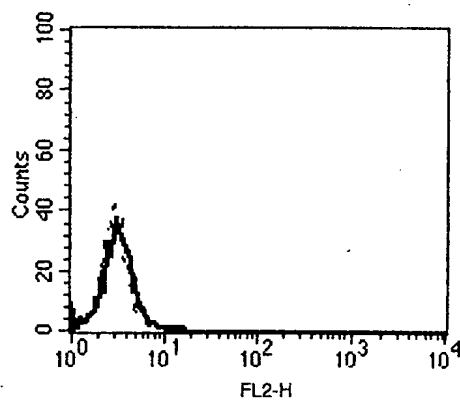


Figure 11

